

H10: UC^{FIBRE™} Outdoor stranded loose cable

Stranded loose tube cable with double sheathing and up to 216 fibres, inner PE sheath, yarn reinforcement and outer PE sheath. DIN/ VDE: A-DQ 2YQ(ZN)B2Y



Application and installation

Very robust double sheathed outdoor data and telecommunication trunk lines. The cable is as standard available with 6 or 12 fibers per tube.

Non-metallic armouring and double sheath, suited for direct burial

Standards

EN 187 000, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12, ISO 11801 2nd edition, EN 50173-1:2002

Construction

Central strength member	ø2.5 mm FRP rod			
Fibre colour code	1	Red	7	Brown
	2	Green	8	Violet
	3	Blue	9	Turquoise
	4	Yellow	10	Black
	5	White	11	Orange
	6	Grey	12	Pink
Loose tube	Ø2.3 mm jelly filled loose tubes, with 6 or 12 fibres each.			
Water blocking	Swellable tape and tread			
Wrapping	Polyester tape			
Inner sheath	1.5 mm black MDPE, IEC 60811, IEC 60708			
Wrapping	Swellable tape			
Reinforcement	E-Glass yarns			
Outer sheath	2.0 mm black MDPE, IEC 60811, IEC 60708			
Sheath marking	Draka UC ^{FIBRE} O ST PE PE 2.7 kN <Fibre count> <Fibre type><Fibre brand> <Item No><factory code><Batch Number><Meter mark> A-DQ2YQ(ZN)B2Y <Number of Elements> x <Fibre count per element><Fibre family> <Mode field diameter> /125 <Transmission Class>			

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Physical properties

Attribute	IEC 60794-1-21/22 Method	Limits					
Fibre count	-	36	72	96	120	144	216
Number of fibres per tube		6	12				
Nominal outer diameter	-	16	16	16.5	18	19.5	19
Nominal weight	-	215	215	250	290	345	320
Tensile strength (dynamic)	E1 [N]	2700					
Tensile strength (permanent)	E1 [N]	2000					
Compressive strength (crush)	E3 [N]	3000 /6000 *)	3000				
Impact	E4 [Nm]	25 /50 *)	25				
Reverse bending; cold	E6	30 reversed bends; R = 200 mm; T = -20°C					
Min. Bending radius	E11 [mm]	200	200	210	225	240	240
Temperature range	F1	-40°C to +70°C					
Water penetration	F5	No water on free end					

*) After the 3000N and the 25 Nm experiments there is no damage to the cable elements and no attenuation change
After the 6000N and the 50 Nm experiments there are small marks on the loose tubes and no attenuation change

Product codes – ordering information

Product code	Product description	Fibre count	Fibre type	Fibre data sheet
	UCFIBRE O ST PE PE 2.7 kN 12 SM2D	12 (1 X 12)	OS2 – G.652.D	C06e
	UCFIBRE O ST PE PE 2.7 kN 24 SM2D	24 (2 X 12)	OS2 – G.652.D	C06e
	UCFIBRE O ST PE PE 2.7 kN 48 SM2D	48 (4 X 12)	OS2 – G.652.D	C06e
	UCFIBRE O ST PE PE 2.7 kN 72 SM2D	72 (6 X 12)	OS2 – G.652.D	C06e
	UCFIBRE O ST PE PE 2.7 kN 96 SM2D	96 (8 X 12)	OS2 – G.652.D	C06e
	UCFIBRE O ST PE PE 2.7 kN 120 SM2D	120 (10 X 12)	OS2 – G.652.D	C06e
	UCFIBRE O ST PE PE 2.7 kN 144 SM2D	144 (12 X 12)	OS2 – G.652.D	C06e

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